



General Studies Program

General Education Certificate: 7-9 WA Courses
General Studies Associates Degree: 12-16 WA Courses

	West Allegheny Course	Rcmd 4 Yr Seq	Rcmd 3 Yr Seq	College Courses	Credits	Prerequisite	WA course type
Math Elective (3-4 credits)	0317 Honors Early College Algebra 2	Y1 or when appr in math seq	Y1 or when appr in math seq	CCAC - MAT 108: Intermediate Algebra	4	Qualifying score on CCAC related placement test(s); Algebra 2	Math
English Requirement (6 credits)	0122 AP English Language & Composition	Y3	Y2	CCAC - ENG 101: English Composition 1	3	Qualifying score on CCAC related placement test(s); B or higher in English 10 or completion of English 11	English
				CCAC - ENG 102: English Composition 2	3		
Choose 1 Social Science (3 credits)	0232 AP US Government & Politics	Y2	Y1	CCAC - POL 103: American Government	3	None	Social Studies
	0243 Criminal Justice & Investigation (3 credits will count toward general elective)	Y3 or Y4	Y2	CCAC - CJC 101: Intro to Criminal Justice CCAC - CJC 201: Fundamentals of Criminal Investigations (Asynch through CCAC)	3 3	None	Social Studies
Choose 1 Humanities Elective (3 credits)	0151 Oral Communications	Y4	Y3	CCAC - SPH 101: Oral Communications	3	Completion of or concurrent enrollment in AP English Language (CCAC - ENG 101)	English
	0132 AP English Literature & Composition	Y4	Y3	CCAC - ENG 115: General Literature	3	AP English Language (CCAC - ENG 101) or a 3 or higher on the AP English Language Exam	English
	0503 Honors Early College Spanish IV (3 credits will count towards general elective)	Y3 or Y4	Y3	CCAC - SPA 101: Elementary Spanish I	3	Qualifying score on CCAC related placement test(s); Spanish III	Social Studies
				CCAC - SPA 102: Elementary Spanish 2	3		
0523 Honors Early College German IV (3 credits will count towards general elective)	Y3 or Y4	Y3	CCAC - GER 101: Elementary German I	3	Qualifying score on CCAC related placement test(s); German III	Social Studies	
			CCAC - GER 102: Elementary German 2	3			
Choose 1 Science Elective (3-4 credits)	0410 AP Biology (4 credits will count towards general elective)	Y3 or Y4	Y2 or Y3	CCAC - BIO 151: General Biology 1	4	Qualifying score on CCAC related placement tests (CCAC-MAT 108 & CCAC-ENG 101) and successful completion of 2 HS science courses; B or higher in Honors Biology	Science
				CCAC - BIO 152: General Biology 2	4		
	0411 AP Chemistry (4 credits will count towards general elective)	Y4	Y3	CCAC - CHM 151: General Chemistry 1	4	Qualifying score on CCAC related placement test (CCAC-MAT 111) or HEC Algebra 2 (CCAC-MAT 108); B or higher in Honors Chemistry	Science
				CCAC - CHM 152: General Chemistry 2	4		
0412 AP Physics 1	Y3	Y2	CCAC - PHY 141: Physics 1	4	HEC Algebra 2 (CCAC-MAT 108) or Qualifying score on CCAC related placement test (CCAC-MAT 111)	Science	

General Elective Options (must complete 6 general elective credits for the certificate OR 42 general elective credits for the associate degree) Any additional courses taken under the above categories beyond the required count towards the general electives.	0620 Introduction to Game Design	Y1	Y1	CCAC - MMC 160: Game Design & Simulation 1	3	Qualifying score on CCAC related placement test	Elective
	0612 Multimedia Graphics (starting 2022-23)	Y2	Y1	CCAC - MMC 113: Multimedia Graphics	3	None	Elective
	0618 Computer Science A (starting 2022-23)	Y2	Y1	CCAC - CIT 111: Intro to Programming: Java	4	Qualifying score on CCAC related placement test(s); Algebra 2 (or concurrent enrollment)	Math
				CCAC - CIT 130: Object Oriented Programming with Java	4		
	0620 Programming in C & C++ (CCAC credits change starting 2023-24)	Y4	Y3	CCAC - CIT 145 Programming in C	3	AP Computer Science Principles (CIT 111) & AP Computer Science A (CIT 130)	Math
		Y4	Y3	CCAC - CIT 245 Programming in C++	4		
	0627 IT Fundamentals	Y1	Y1	CCAC - CIT 115: Info Technology Fundamentals	3	None	Elective
				CCAC - CIT 150: Computer Configuration & Support	3		
	0628 Principles of Networking & Cybersecurity	Y2	Y2	CCAC - CIT 120: Networking Concepts	3	IT Fundamentals (CCAC-CIT 115)	Elective
				CCAC - CIT 182: Principles of Cybersecurity	3		
	0632 Network & Infrastructure Security	Y3	Y3	CCAC - CIT 250: Network Routing & Switch	3	Principles of Networking & Cybersecurity (CCAC-CIT 120 & CCAC-CIT 182)	Elective
				CCAC - CIT 253: Infrastructure Security	3		
	0630 Cybersecurity Capstone (ends 2022-23)	Y4	Y3	CCAC - CIT 282: Advanced Cybersecurity Topics	3	Networking w/Intrusion Detection & Prevention (CCAC-CIT 185)	Science
				CCAC - CIT 285: Cybersecurity Capstone	3		
	0629 Ethical Hacking (starting 2022-23)	Y4	Y3	CCAC - CIT 254: Ethical Hacking	3	Principles of Networking & Cybersecurity (CCAC-CIT 182)	Science
				CCAC - CIT 282: Mobile Device & Cloud Security	3		
	0633 Linux System Administration	Y3 or Y4	Y2 or Y3	CCAC - CIT 205: Help Desk & User Support	3	IT Fundamentals (CCAC-CIT 115)	Elective
				CCAC - CIT 220: Linux System Administration	3		
	0634 Windows Server Administration (starting 2022-23 sy)	Y3 or Y4	Y2 or Y3	CCAC - CIT 251: Window Server Administration	4	Principles of Networking & Cybersecurity (CCAC-CIT 120)	Elective
	0619 Intro to Data Analytics with Python	Y2 or Y3	Y2	CCAC - DAT 102: Intro to Data Analytics	3	Any CCAC-CIT course	Math
				CCAC - DAT 119: Python 1	4		
	0622 Developing Multimedia Websites (ends 2022-23)	Y2	Y2	CCAC - MMC 111: Developing Images for the Web	3	Intro to Game Design & Web Development (CCAC-CIT 125)	Elective
				CCAC - MMC 112: Audio & Video Web	3		
				CCAC - MMC 150: Programming with Java Script	3		
	0623 3D Modeling & Animation	Y3	Y1 or Y2	CCAC - MMC 260: Maya for Gaming 1	3	None	Elective
				CCAC - MMC 270: Maya for Gaming 2	3		
	0624 Game Production & Marketing (course changes 2024-25)	Y4	Y3	CCAC - MMC 228: Instruct Design	3	3D Game Development	Social Studies
	0625 3D Game Development (course changes 2023-24)	Y3	Y2	CCAC - MMC 250: 3D Game Development	3	AP Comp Science Principles (CCAC-CIT 111)	Math
	0626 Virtual Reality	Y4	Y3	CCAC - MMC 170: Virtual Design and Simulated Realities (registered for fall)	3	Intro to Game Design (CCAC-MMC 160); 2D/3D Game Development	Elective
				CCAC - ART 113: Graphic Communications (Asynch through CCAC in spring)	3		
0700 Manufacturing 1	Y1	Y1	CCAC - MEC 100:Mechatronics Safety & Quality	3	None	Elective	
			CCAC - MEC 102: Industrial Processes	3			
0701 Home Systems	Y2	Y1	CCAC - EET 103: Intro to Electronics	3	None	Elective	
			CCAC - EGR 181: Intro to Mechanical Systems	3			
0702 Fluid Systems & Motor Control	Y3	Y2	CCAC -MEC 156: Motors & Motor Control	3	Home Systems (CCAC-EET 103)	Elective	
			CCAC - EGR 170: Fluid Power Systems	3			
0716 Digital Electronics	Y4	Y2	CCAC - MEC 108: Program Logic Controllers	3	Home Systems (CCAC-EET 103)	Elective	
			CCAC - EET 208: Digital Electronics	3			
0703 Power Systems	Y4	Y3	CCAC - MEC 106: Industrial Power Systems	3	Home Systems (CCAC-EET 103)	Elective	
			CCAC - MEC 112: Intro to Robotics	3			

Students may also take courses offered through our ECHSA-RMU program and transfer them to CCAC for degree completion.